

RACING TOWARDS A SUSTAINABLE FUTURE:

A REVIEW OF THE GLOBAL SUSTAINABILITY PERFORMANCE OF MOTORSPORT CHAMPIONSHIPS



FOREWORDS

It's so exciting to see progress being made in sustainability at circuits all around the world. They are an extremely important stakeholder in this conversation, because of one simple truth: **circuits are where people gather to watch the motorsports they love.**

It's important to try and take learnings where we can from lots of different sports and sectors. At TPC Scottsdale in Arizona, the Phoenix Open is one of the best examples of an event and venue truly believing it can engage with a huge audience on this topic. Not just the "greenest show on grass", it also happens to be the most well-attended event in all of golf. That presents an unbelievable opportunity to spread a crucial message about positive climate action. I'd love to see a circuit doing the same with one of its flagship events. And audiences, especially younger demographics, don't just expect this to be fulfilled – they demand it.

Gains can be made here relatively quickly with a few key tenets. Buy-in absolutely has to come from the top of an organisation, **sustainability should be considered a business priority**, it must be dealt with holistically, and it can absolutely be beneficial to all other parts of the business.

I'm also a firm believer that you have to develop talent within your own ranks – so those circuits where you have incredible people who are a driving force on this topic, I urge you to support, champion and empower them, so that they not only have a voice but also an influence to make decisions too.

Congratulations and well done to everyone involved in the index this year; hopefully it will be a useful **benchmark** going forward.

DAVID GARRIDO

Presenter, Sky Sports

Sustainability Lead, Sky Sports News

FOREWORDS

Having studied motorsport and its innovation trajectories for quite a few years, I have enjoyed witnessing how sustainability has rapidly risen as a primary goal for most organizations in this ecosystem. Perhaps because this aspect has been neglected in the past, **it is particularly commendable to see key actors' commitment to making motorsport a model of sustainability through tangible and measurable actions.**

In a world driven by a relentless pursuit of precision and performance, assessing how well organisations are trying to adapt to the sustainability imperative is a first, mandatory step.

Arguably, measuring is one of the most complicated exercises to undertake in any field, as measures, by nature, reflect a specific view of the world and are often challenged by various instrumental biases. Still, this is not a good reason to forego serious attempts to assess critical matters such as the sustainability of the "temples of speed": the international racing circuits.

The third edition of the Sustainable Circuits Index™ further advances this ambitious objective with renewed precision and rigor. It can only be welcomed as a **much-needed effort to celebrate best practices and address improvable situations.** It is in this constructive spirit that it needs to be examined, with the awareness that the final goal is far from reach, but that we need fast organizations and improved tools to quickly tackle this urgent matter, the solution of which can no longer wait.

PAOLO AVERSA

Professor of Strategy and Motorsport Expert
King's College London

WITH THANKS TO OUR PARTNERS



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ABSTRACT

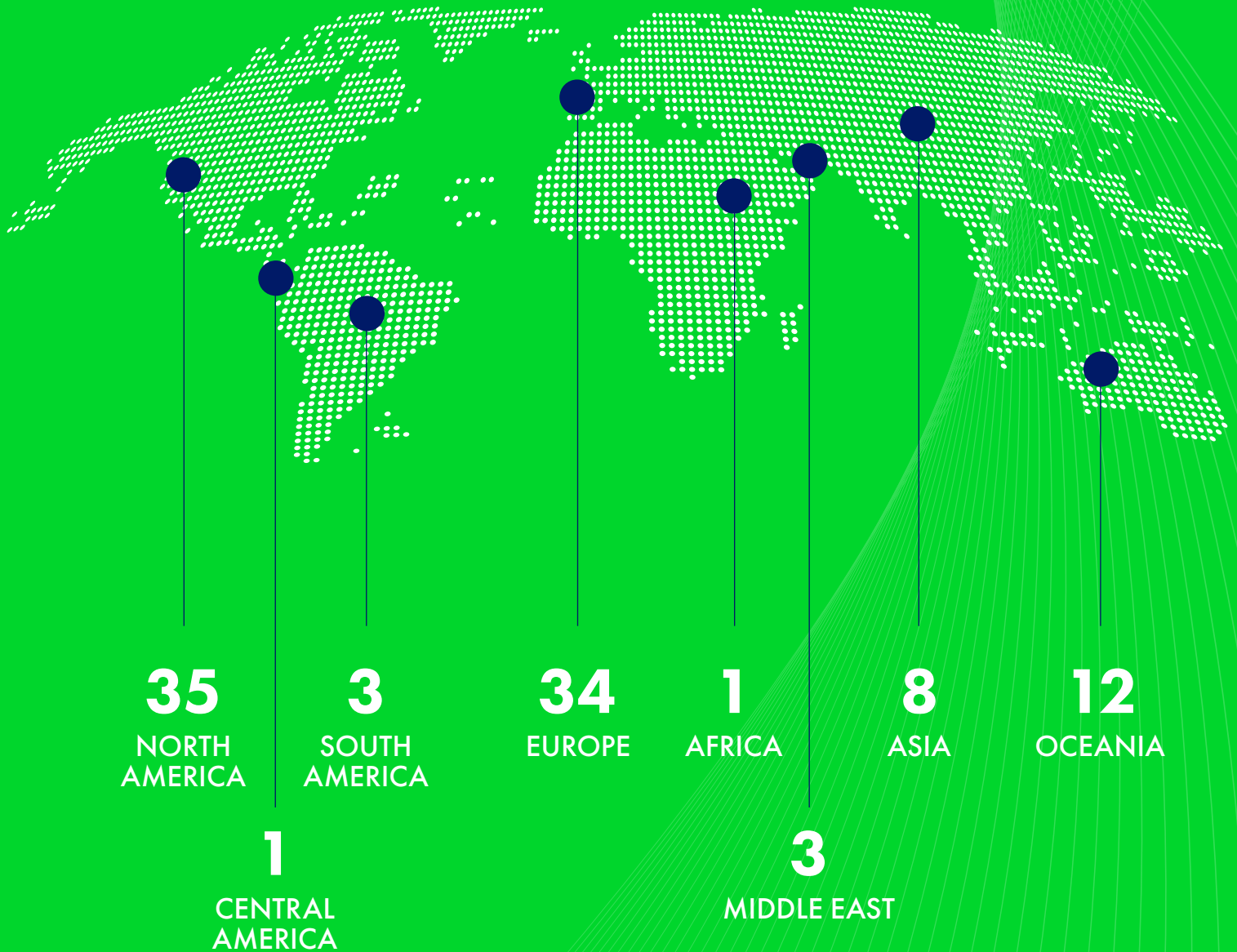
As part of the Sustainable Motorsport Index™ family of reports, the Sustainable Circuits Index™ (SCI™) offers a robust and evidence-based annual assessment of motorsport venues around the world and their progress against defined sustainability parameters.

With each Index published, the authors aim to accelerate the sustainability movement taking place across the motorsport industry and beyond by promoting industry best practice and encouraging venues to engage with sustainability in alignment with policies and best practice created by the corporate world (via environmental, social, and governance (ESG) parameters) and the FIA and FIM, as summarised in the first edition of the SCI™ study.

By shining a light on the latest initiatives and innovations taking place globally, **the SCI™ serves as a reference point for circuits at every stage of their sustainability journey, whether they are advanced or relatively nascent.**

Sustainability in sport is at a crucial inflection point; those who position themselves as future-facing innovators have the opportunity to set the agenda, drive change, and harvest the rewards. Contrarily, **those who do not will have the responsibility of playing catch-up and facing increasing calls from their fanbase to explain their lack of engagement.** The SCI™ provides a guide through which circuits can explore a range of ways to enhance their ESG credentials and support global efforts towards a sustainable future.

GEOGRAPHIC DISTRIBUTION OF CIRCUITS



HIGHLIGHTS

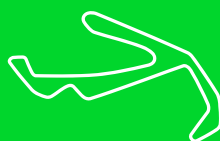
TOP 3



1. MUGELLO CIRCUIT

(2022: 2ND) (2021: 1ST)

2. CIRCUIT DE BARCELONA CATALUNYA

(2022: 1ST) (2021: 2ND)

3. MISANO WORLD CIRCUIT MARCO SIMONCELLI

(2022: 5TH)

97

International circuits assessed across seven key parameters of sustainability



Mugello Circuit and Circuit de Barcelona Catalunya have been vying for first place since the original Sustainable Circuits Index™ in 2021



Misano World Circuit Marco Simoncelli enters top three for first time



Silverstone named as most improved circuit, earning an additional 29 points in 2023's Index

1 INTRODUCTION: THE RACE FOR A SUSTAINABLE FUTURE CONTINUES

With each passing year, interest in motorsport continues to reach new heights. In addition to the traditional ways in which passion has been passed from generation to generation for many decades, **the explosion in digital media and streaming platforms have allowed greater access than ever before**, engaging young fans who may otherwise not have been exposed to the sport.

As this emerging audience turns in ever-greater numbers to the races that make motorsport so exhilarating, they bring with them higher expectations around sustainability and positive impact. They are switched on, curious about the world, and socially active. Recent research by Nielsen Sports underlines this, revealing that a majority of fans now believe **Formula 1 should be a world leader in the development of 100% sustainable fuel**¹.

The circuits that play host to thousands of the world's most high profile races and events each year occupy a unique position in motorsport and benefit from an outsized influence over the entire ecosystem as a result. Every international event brings with it thousands of attendees, and with this degree of exposure, the implications for positive impact and educating this audience on sustainability with every decision relating to economic, social, environmental, waste reduction, biodiversity, and mobility measures, to name just a few, should not be underestimated. This year's SCI™ shows that an increasing number of circuits globally are demonstrating a sincere commitment to delivering world-class events that put sustainability at the heart of their strategy and day-to-day operations, but there is still a long way to go.

When reviewing data for the third edition of the Sustainable Circuits Index™, which were collected during February 2023 and consider publicly available information from 1 January to 31 December 2022, several observations shine through: first, **the leaders of the pack continue to innovate and look for opportunities to further accelerate progress on sustainability best practice**. The most improved circuits, Silverstone Circuit (+29 points), Mugello Circuit (+18), and Circuit de Barcelona Catalunya (+13) are all ranked in the top five around the world for sustainability, demonstrating that those at the front of the pack are consistently going the extra mile to drive change and lead by example. It is the nature of motorsports to strive for continuous improvement, so it is no surprise to see this play out when it comes to delivering positive impact off the track.

Though there are several familiar names in the top ten, significant movement continues to occur as circuits jostle for position with improvements across a wide sweep of sustainability measures, ranging from **on-site renewable energy generation** through to **technologically advanced fan engagement** and **gamification of waste and recycling initiatives**, demonstrating how quickly positive impact can start to take shape and offering positive incentives for those circuits yet to meaningfully engage with sustainability to start out on their journey at the earliest opportunity.

Source:
¹ www.prnewswire.com/news-releases/formula-1-and-motorsport-network-unveil-fan-results-of-largest-single-sports-survey-ever-conducted-by-nielsen-sports-301405977

2 STUDY AIMS AND METHODOLOGY

The 2023 Sustainable Circuits Index™ (SCI™) is the latest in the annual series of papers that assess and report on the continued progress of sustainability efforts among motorsport circuits around the world.

In line with previous iterations of the index, the 2023 SCI™ is based on 21 sustainability performance criteria across seven broad dimensions of sustainability: **certifications, accreditations, awards, environmental performance, social performance, economic impact**, and sustainability approach and engagement. A full description of the criteria is given in Table 1.

Considering solely publicly disclosed information covering 1 January 2022 to 31 December 2022 and accessed during the assessment period of February 2023, the Index explores how motorsport circuits are engaging with environmental, social, and governance (ESG) issues, and how they are communicating their progress within their wider ecosystems. Any information disclosed following this period will be considered as part of the next edition of the study.

The methodology used in this study, consistent with the approach used in earlier editions of the SCI™ ranking, was developed in collaboration with academic sustainability expert Professor Paolo Taticchi of UCL School of Management, who has also coordinated the final evaluation of data to ensure robustness and independence.

Points are allocated according to the criteria of each of the various metrics, with a total of 100 points available to create an absolute score ranging from 0 to 100 (lowest to highest level of sustainability performance). These points are then normalised over the highest score to create the final ranking.

Based on their score, the circuits are grouped into four categories, as detailed in Table 2.

Table 2:
Categories of sustainability performance associated with the SCI™ index.






HIGH SCI™ SCORE	
MEDIUM - HIGH SCI™ SCORE	
MEDIUM SCI™ SCORE	
MEDIUM - LOW SCI™ SCORE	
LOW SCI™ SCORE	

Table 1:
Criteria used to assess the sustainability performance of circuits and build the SCI™.

CERTIFICATIONS

1. ISO 14001

Sets out the criteria for an environmental management system that an organisation can use to enhance its environmental performance.

2. ISO 45001

Sets out the criteria for an occupational health and safety management system that an organisation can use to protect employees and visitors from work-related accidents and diseases. Note: ISO 45001 replaced ISO 18001 (as of September 2021) as the new international standard for occupational health and safety management.

3. ISO 20121

Sets out the criteria for a sustainable event management system that an organisation can use to manage events and control their social, economic and environmental impact.

4. ISO 9001

Sets out the criteria for a quality management system that an organisation can use to demonstrate the ability to consistently provide products and services that meet customer and regulatory requirements.

5. LEED, BREEAM, PEARL, OR OTHER

Set the criteria for the design and maintenance of healthy, highly efficient and cost-saving green buildings.

ACCREDITATIONS

6. FIA Environmental Accreditation

Assesses the environmental performance of motorsport stakeholders.

AWARDS

7. FIM Environmental Award, Best Grand Prix MotoGP, or Other

Recognises the efforts made by organisers, federations, circuits, and teams to develop sustainable initiatives and events that minimise environmental impact and leave a positive legacy to local communities.

ENVIRONMENTAL CRITERIA

8. Waste management and circular economy initiatives

Assesses adoption of sustainable waste management practices and development of circular economy initiatives.

9. Renewable Energy and Energy Efficiency

Assesses procurement of green energy or/and on-site production of renewable energy. Use of LED lighting systems and other high efficiency equipment.

10. Correct Use of Natural Resources

Assesses adequate use of natural resources (e.g., water, wood, metals) and actions to protect biodiversity.

11. Transportation and Mobility

Assesses actions to improve mobility to/from venues, reduce emissions generated by transportation, and use transportation options with a lower carbon footprint.

12. Climate Action Projects

Projects focused on fighting climate change, including the calculation of the circuits' carbon footprint, carbon offset mechanism, and carbon sequestration projects..

Table 1:

Criteria used to assess the sustainability performance of circuits and build the SCI™.

SOCIAL CRITERIA**13. Accessibility**

Availability of services dedicated to supporting people with disabilities.

14. Philanthropy

Donations and fundraising events to support not-for-profit organisations and charitable causes.

15. Community Events

Organisation of initiatives and events aimed at supporting the communities adjacent to the circuits.

16. Actions to Counteract Food Waste

Adoption of initiatives to collect surplus and combat food waste.

ECONOMIC CRITERIA**17. Impact on Local Economic Development**

Active measurement of the circuit's impact on the local economy (e.g., on employment, tourism, local suppliers) and commitment to making a positive impact.

SUSTAINABILITY APPROACH AND ENGAGEMENT**18. Social and Environmental Management Policies or/and Ethics Code**

Formal documents or webpages that disclose the commitment and behaviour of the organisation through environmental, social, and ethical standards. This could include the explicit reference to the UN Sustainable Development Goals, the UN Global Compact, and the ILO regulations.

19. Engagement Demonstrated Through Activism, Events and Sustainability Initiatives

Events and initiatives hosted by the circuit focused on sustainability. Examples include the K.i.S.S. (Keep it Shiny and Sustainable) programme promoted by FIM, IRTA and Dorna or Girls on Track (GoT) promoted by FIA.

20. Sustainability Reporting

Disclosure of sustainable business policies and practices through websites or sustainability reports; or engagement in carbon disclosure programmes (e.g., the Carbon Disclosure Programme).

21. Sustainability Strategy

Disclosure of a clear and ambitious sustainability strategy comprehensive of SMART objectives.

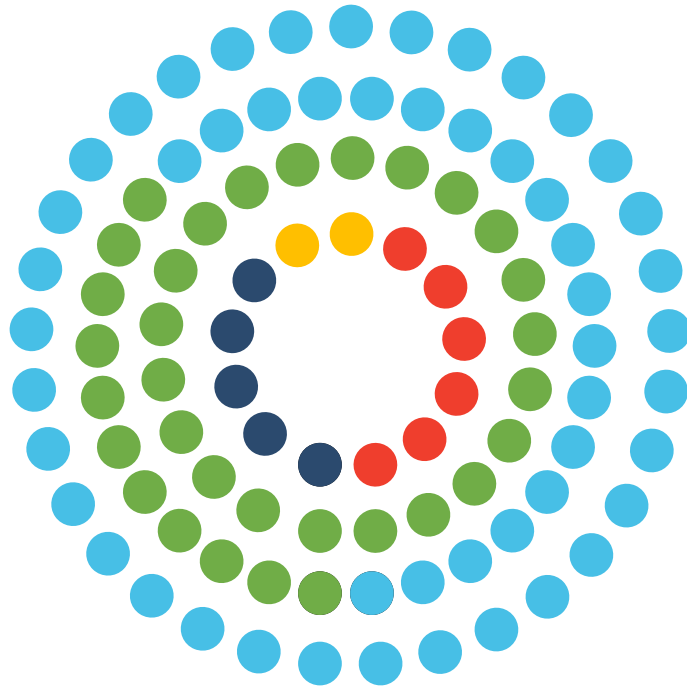
3 THE BIG PICTURE

All 97 circuits were assessed for their performance across the range of sustainability parameters (Table 1), and steady progress has been made in almost all areas since last year's ranking, demonstrating the continued groundswell of interest in and support for measures that deliver positive impact, not just for the venues themselves but the geographies and communities in which they exist. Breaking these down into each subcategory, patterns and trends begin to emerge:

SUSTAINABILITY APPROACH AND ENGAGEMENT

Of the 97 circuits reviewed, two circuits achieved a HIGH sustainability performance, maintaining last year's figure and an increase from one in 2021.

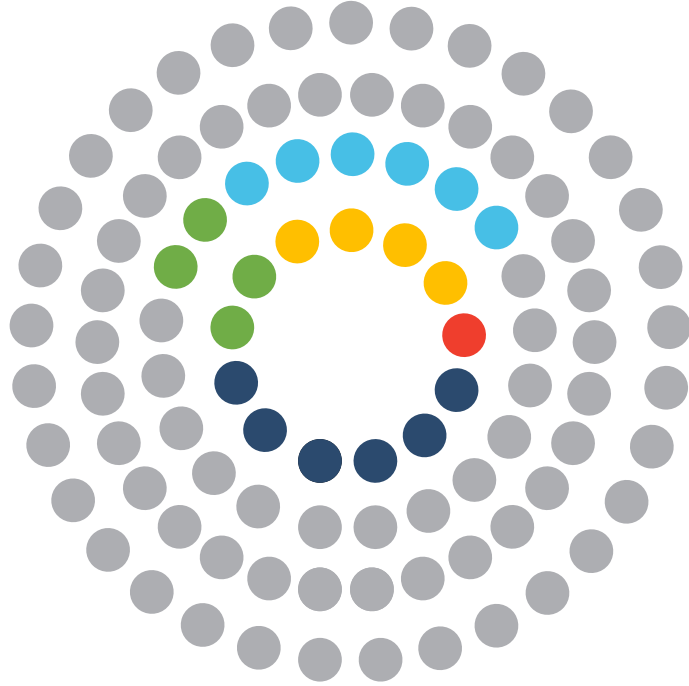
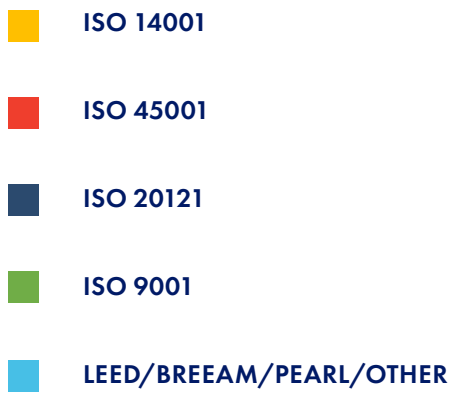
Figure 1:
The overarching sustainability performance of assessed circuits



CERTIFICATIONS

A total of 21 certifications have been issued and disclosed, up from 13 in 2022 and 9 in 2021.

Figure 2:
Industry recognised
certifications achieved

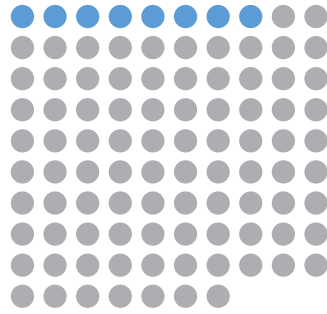


ACCREDITATIONS

Data collected in 2022 shows that a total of 8 circuits have now achieved an FIA Environmental Accreditation, up from 6 in 2022 and 3 circuits in 2021.

8

Figure 3:
FIA Environmental
Accreditations achieved

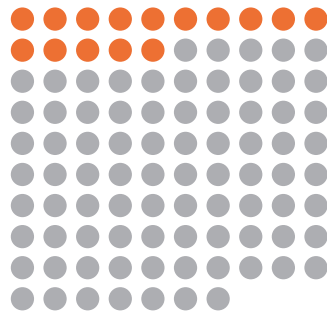


AWARDS

The total number of circuits that have received an award in recognition of sustainability efforts is 15, up from 7 in 2022 and 6 in 2021.

15

Figure 4:
Awards received
in recognition of
sustainability efforts



ENVIRONMENTAL CRITERIA

Circuits were assessed for their performance across five environmental parameters, with significant progress evident in each category since last year.

Figure 5:
Performance against environmental criteria



SOCIAL CRITERIA

Activations related to social outreach continue to improve, particularly when it comes to community events with 42 circuits engaging in these activities, up from 28 in 2022.

Figure 6:
Performance against social criteria



ECONOMIC CRITERIA

16 circuits performed well in relation to their impact on local and economic development, indicating no change since last year but an improvement on 2021, when the number was 12.

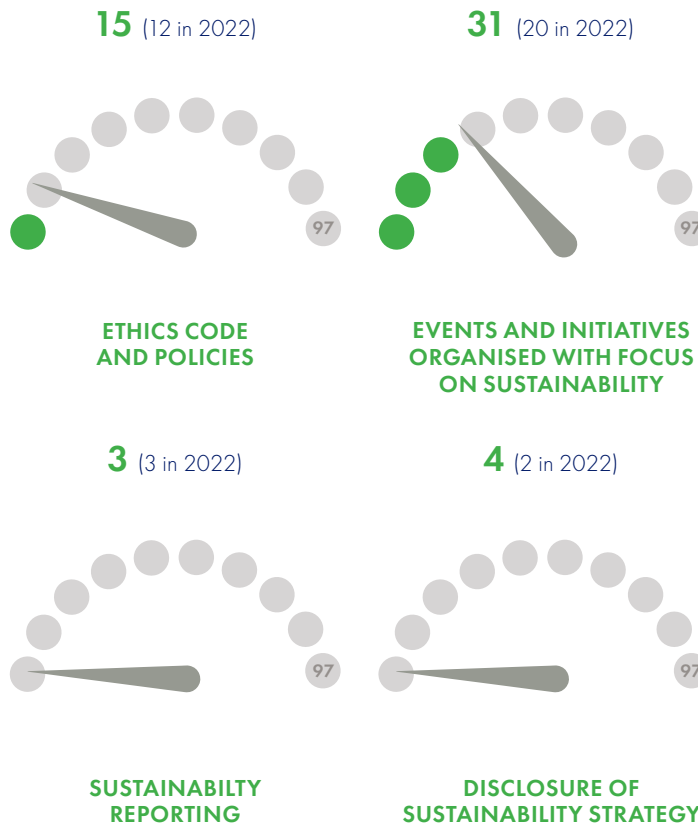
Figure 7:
Performance against economic criteria



SUSTAINABILITY APPROACH AND ENGAGEMENT

Of the 97 circuits reviewed, six have formalised and outlined their goals in a Sustainability Strategy and 31 have organised events and initiatives focused on sustainability, more than a 50% increase on 2022.

Figure 8:
Publicly outlined sustainability approach and engagement



4 THE LEADING SUSTAINABLE MOTORSPORT CIRCUITS

The leader of this year's SCI™ is **Mugello Circuit**, which returns to the top spot having been displaced last year by Circuit de Barcelona-Catalunya. **Mugello's systematic focus on improving sustainability measures both at an operational and strategic level has ensured it continues to dominate the ranking.**

Over the course of several years, the circuit has remained focused on obtaining best-in-class certifications and accreditations, implementing waste management and energy efficiency systems, delivering accessible community outreach programmes, and powering the site with 100% renewable energy. These measures, when combined with those listed in this year's index, underscore Mugello's consistent commitment to sustainability and cement its position at the front of the pack.

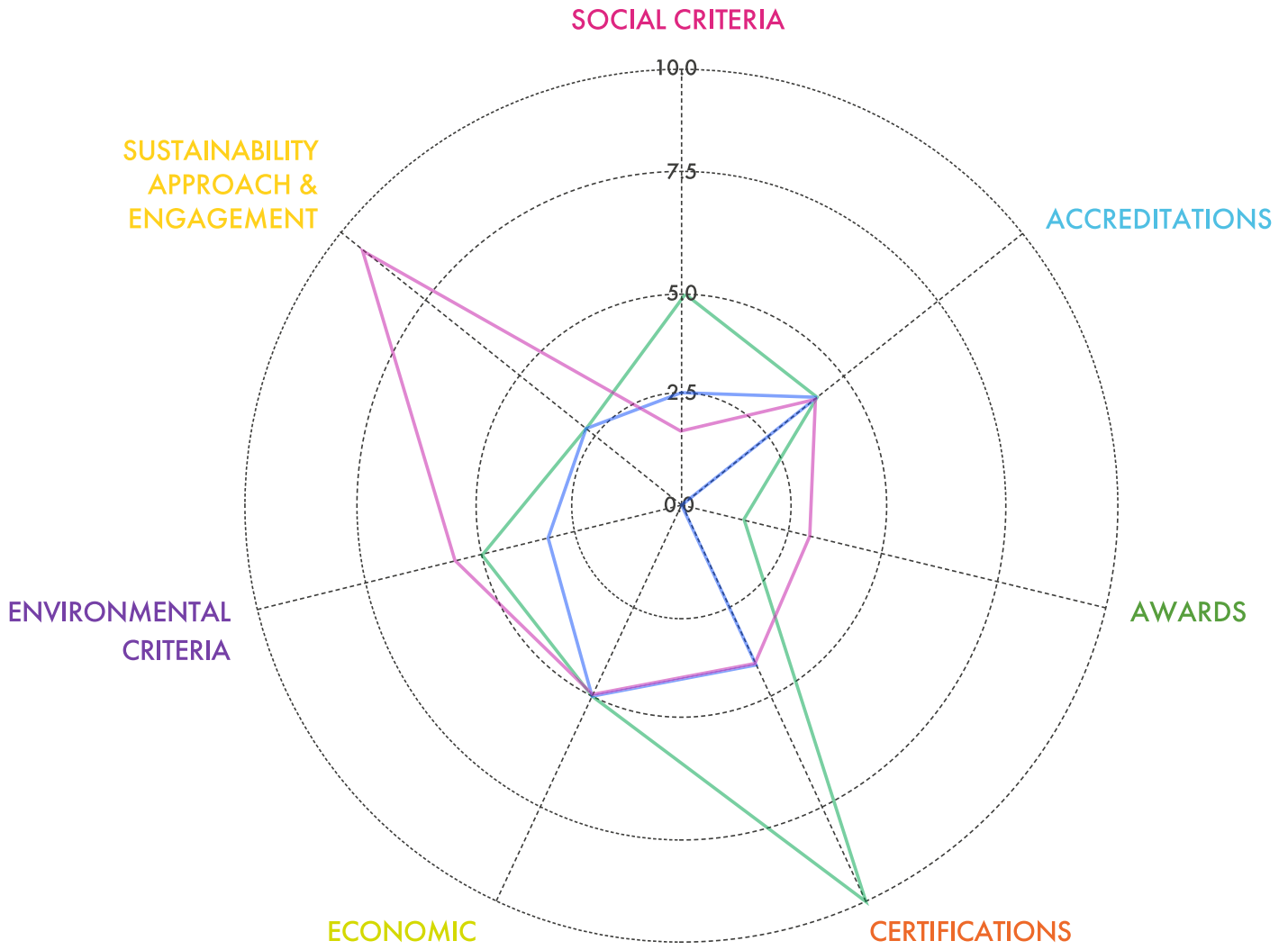
Following in second place, **Circuit de Barcelona-Catalunya has implemented several significant improvements in the past year to secure its leading place in the ranking.** These come in addition to existing sustainability achievements, including awards for the circuit's commitment to sustainable tourism, the installation of EV charge points, the planting of hundreds of trees in the local area, the donation of surplus food during race weekends, and the prioritisation of low carbon mobility to and from the venue.

This year, **Misano World Circuit Marco Simoncelli has entered the top three for the first time**, climbing from fifth position in last year's ranking. The circuit had already made impressive strides in obtaining relevant industry certifications, including the 3-star FIA environmental accreditation, and has ramped up its activities once more over 2022 to secure third place in the SCI™.

Elsewhere in the ranking, **Silverstone Circuit receives particular commendation for the great strides it made towards sustainability in 2022**, improving its absolute SCI™ score by a staggering 29 points and earning its place as 'Most Improved Circuit' in this year's Index.

Full details of this year's leaders are found on the following pages, acting as a clarion call for those circuits who are yet to set off in earnest on their sustainability journeys and bringing to life the rewards that are available to those who robustly engage with the many parameters at play in delivering a sustainable future for the motorsport industry.

Figure 9:
The profile of today's sustainability leaders' performance in the various dimensions expressed from 0 to 10.



- Mugello Circuit
- Circuit de Barcelona - Catalunya
- Misano World Circuit Marco Simoncelli

5

THE SUSTAINABILITY APPROACHES OF LEADING MOTORSPORT CIRCUITS



MUGELLO CIRCUIT – ITALY

(BEST PERFORMER)

Absolute SCI™



Having never strayed far from the top spot, **Mugello Circuit has returned to take first place in the SCI™ 2023** thanks to its continued commitment to embedding sustainable best practices across a broad range of business areas. It also placed second in the most-improved category, having raised its absolute score by 18 points in just one year.

Adding to its already-impressive list of accreditations, in 2022 the circuit added EMAS certification² to others including ISO 9001, ISO 14001, ISO 45001 and ISO 20121, whilst also making its integrated EH&S Policy publicly available³. Beyond its own operations, **Mugello Circuit monitors the sustainability credentials of its supplier network, acting as an ambassador and advocate to encourage others to prioritise ESG progress.**

The circuit is reaping the benefits of sustainability developments including:

- 120 hectares of green space that includes oaks, firs, cypresses, and wild fruit trees like apples, plums, and peaches, which absorbs approximately 3,600 tonnes of CO₂e each year
- Over 4,000m² of eco-active and antibacterial ceramic slabs covering the central grandstand, capable of breaking down most common air pollutants and bringing the equivalent NO_x reduction of more than 1,200 large trees⁴
- 120 drinking water dispensers have been made freely available to the public, avoiding the use of c. 75,000 500ml bottles during the 2022 MotoGP™ – equivalent to avoiding an estimated 6,450 kg of CO₂e
- 43 “micro ecological islands” designated for separate waste collection
- The use of metal cutlery, glassware and ceramic to avoid single-use items, as well as the distribution of recycled water bottles to employees and the installation of water dispensers in the communal areas of the Palazzina

Supplementing the work taking place at an organisational level, **public-facing campaigns have further amplified the circuit’s efforts toward sustainable best practice.** In 2022, the circuit hosted a “Pit Lane Walk Solidale” event, in which individuals with disabilities and their companions toured the teams’ pits and had the opportunity to meet with MotoGP™ riders and team managers⁵, as well as the collection and donation of approximately 2500 meals⁶.

Collaborations with the likes of the C.I.V. (Italian Speed Championship), the F.I.M. (Fédération Internationale de Motocyclisme), the Carabinieri Corps, the Club Ciclo Appenninico 1907, the Livorno Sports Association, and more provide regular opportunities for different audiences to benefit from the circuit’s facilities, whether children taking a minibike driving course, corps undergoing road safety training, cyclists preparing for upcoming races, or seniors visiting the track⁷.

Source:

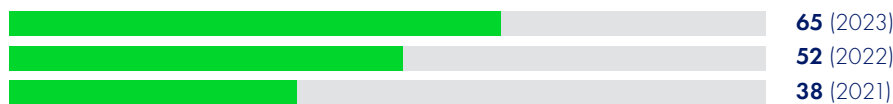
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CIRCUIT DE BARCELONA-CATALUNYA – SPAIN

(SECOND BEST PERFORMER)

Absolute SCI™



Having made great strides in its score since last year and placing third in the most-improved category with an additional 13 points in 2022, the **Circuit de Barcelona-Catalunya continues to demonstrate its robust approach to sustainability with a raft of quantifiable commitments and activations.**

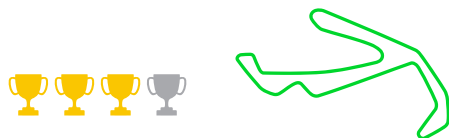
2022 saw the launch of the circuit's Strategic Plan⁸, aimed at making Circuit de Barcelona-Catalunya more environmentally and economically sustainable. In the same year, the circuit also certified its CSR management system in line with the United Nation's Sustainable Development Goals (UNSDGs); this is in addition to its suite of existing certifications, which include the 3-Star FIA Environmental Accreditation.

Leveraging its influence in the fan community, Circuit de Barcelona-Catalunya has been proactive in distributing reusable cups on-site to avoid generation of waste, **using profits to finance upkeep of the circuit's green spaces.** The circuit has also invested in RECICLOS, a return and reward system that offers incentives for activities such as recycling cans and plastic bottles⁹. In partnership with the Red Cross, Circuit de Barcelona-Catalunya gave all fans with a 2022 Formula 1® or MotoGP™ Grands Prix ticket the opportunity to assign the cost of their ticket to the Red Cross RESPONSE Plan¹⁰.

In recognition of the circuit's position within the wider ecosystem, **for which it generates an annual output of 326 million euros**, a number of community outreach programmes took place throughout 2022, including sustainable education workshops, a collaboration with the Stop Food Waste campaign to donate surplus food to a local diner, and a demonstration of sustainable forest management through the Crater forest, one of its primary green spaces¹¹.

Already benefitting from **100% renewable energy generation**, six additional electric vehicle charging points were installed in 2022 to further encourage sustainable mobility to and from site¹².

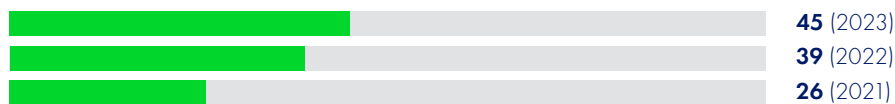
Source:
⁸ www.circuitcat.com/en/news/circuit/the-strategic-plan-of-circuit-de-barcelona-catalunya-promotes-a-more-sustainable-innovative-industrial-and-digital-model/
⁹ www.circuitcat.com/en/news/moto-gp/kiss-barcelona-commitment-to-sustainability-in-the-framework-of-the-sdgs/
¹⁰ www.circuitcat.com/en/news/formula-1/making-a-donation-to-the-red-cross-grand-prix-ticket-holders/
¹¹ www.motogp.com/en/news/2022/06/03/circuit-de-barcelona-catalunya-embraces-green-culture/424076
¹² www.circuitcat.com/en/news/moto-gp/kiss-barcelona-commitment-to-sustainability-in-the-framework-of-the-sdgs/



MISANO WORLD CIRCUIT MARCO SIMONCELLI – ITALY

(THIRD BEST PERFORMER)

Absolute SCI™



Continuing its ascent through the global SCI™ ranking, **Misano World Circuit Marco Simoncelli continued to mark itself out as a leader on the international stage** with a number of impressive achievements in 2022.

Progress is particularly evident across certifications; in the last year, Misano not only obtained ISO 20121 accreditation¹³ to support its delivery of sustainable events, but also **earnt the 3-star FIA Environmental Accreditation¹⁴ in recognition of its best practice on environmental performance.**

Elsewhere, the circuit continued to prioritise effective fan engagement through campaigns such as the 'Misano Green Circuit' initiative¹⁵, through which fans were encouraged to use sustainable mobility to travel to and from the track and thereby minimise environmental impact on the local area.

Paddock members were also encouraged to recycle and manage their waste, with the circuit arranging several recycling areas around the paddock and providing dedicated recycling bins, and surplus food was donated with more than 1,000 meals collected to be distributed to local communities¹⁶.

Source:
¹³ www.misanocircuit.com/wp-content/uploads/2022/06/CERT16560.pdf accessed April 2023
¹⁴ www.misanocircuit.com/wp-content/uploads/2022/07/Misano-World-Circuit_Three-Star-Environmental-Accreditation_Certificate_110522.pdf accessed April 2023
¹⁵ www.worldsbk.com/en/news/2022/Misano%20Green%20Circuit%20announces%20important%20waste%20collection%20during%20the%20Pirelli%20EmiliaRomagna%20Round
¹⁶ www.worldsbk.com/en/news/2022/Misano%20Green%20Circuit%20announces%20important%20waste%20collection%20during%20the%20Pirelli%20EmiliaRomagna%20Round

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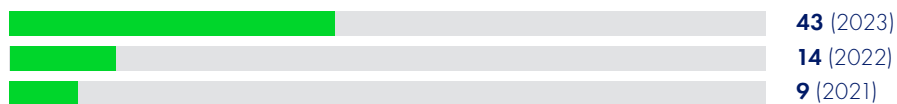
MOST IMPROVED CIRCUIT



SILVERSTONE – UK

(JOINT FOURTH BEST PERFORMER)

Absolute SCI™



Silverstone Circuit has more than tripled its score in the last year, rising to the top of the global pack thanks to a sustained focus on incorporating ambitious sustainability best practice across its operations and wider network.

This approach, encapsulated by the circuit's 'Shift to Zero' sustainability strategy, saw Silverstone win Motorsport UK's coveted Environmental Award¹⁷ for its **robust and bold action on sustainability** in 2022.

Bolstering its existing accreditations, Silverstone achieved two-star FIA Environmental Accreditation in 2022 and **became the first motor racing venue to join the UNFCCC Sports For Climate Action framework**. Its on-site generators now run on hydrotreated vegetable oil (HVO), resulting in a 90 per cent reduction in CO₂.

Throughout 2022, additional achievements at the circuit included:

- 2,764 solar power modules installed on-site, covering over 4,300m² and generating around 13% of the venue's annual power requirements¹⁸. The panels save over 20,500kg of CO₂ each month – the equivalent of 72 trees
- 24 EV charge points installed, encouraging greater uptake of sustainable mobility options
- 22 water stations installed for the 2022 British GP, with an estimated 600,000 bottles refilled over race weekend¹⁹
- Partnership with local charities for redistributing surplus food all year around and providing outreach for colleges and local schools
- Green Champions programme established, with volunteers meeting monthly to plan sustainability initiatives across the business²⁰
- A joint initiative with Sky Zero at the 2022 British GP in which fans were asked to recycle their rubbish, refill their water bottles, or opt for a plant-based meal in return for entry into a competition to win hospitality at the event in 2023²¹

Silverstone circuit is an exemplary model of what can be achieved in a short space of time when a considered, holistic approach to sustainability is adopted.

Source:

17. www.motorsportuk.org/silverstones-shift-to-zero-wins-motorsport-uks-2023-environmental-award/ accessed April 2023

18. www.silverstone.co.uk/news/racing-towards-net-zero accessed April 2023

19. www.silverstone.co.uk/news/shift-zero-silverstone-charges-forward-sustainability-strategy

20. www.silverstone.co.uk/news/sustainable-community-silverstone

21. www.silverstone.co.uk/news/shift-zero-silverstone-charges-forward-sustainability-strategy

7

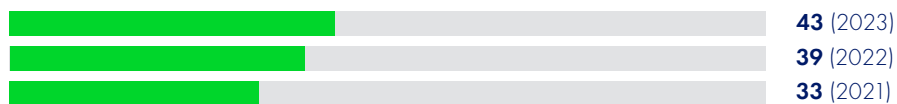
NOTABLE PERFORMANCES



CIRCUIT PAUL RICARD – FRANCE

(JOINT FOURTH BEST PERFORMER)

Absolute SCI™



Joining Silverstone in fourth place, Circuit Paul Ricard has continued to make consistent progress towards its sustainability goals, building on the significant accomplishments it has achieved in previous years.

The circuit has switched its technical and track safety vehicles to a 100% biofuel, **reducing associated carbon emissions** by 85%; it also benefits from a number of EV charging terminals on-site for visitors²².

As part of the venue's sustainability strategy, **five trees are now planted for each one cut down on-site**.²³ Air quality is assessed through twice-annual bee health monitoring, where analysis of the bees shows the site to have excellent air quality and that activity at the track has no significant impact on its environment.²⁴

Source:
²² corp.formula1.com/how-circuit-paul-ricard-uses-sustainable-innovations-to-protect-the-local-environment/ accessed April 2023
²³ www.circuitpaulricard.com/en/pages/dev%C3%A9loppement-durable/
²⁴ corp.formula1.com/how-circuit-paul-ricard-uses-sustainable-innovations-to-protect-the-local-environment/ accessed April 2023

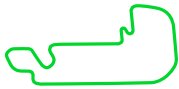


CIRCUIT DE LA SARTHE (LE MANS) – FRANCE

Placing joint fifth overall in the 2023 SCI™ ranking, Circuit de la Sarthe made impressive progress across many sustainability parameters in 2022. **The venue increased its focus on the sustainability credentials of its supply chain**, working with an external provider to assess them through the lens of ISO 20400 guidelines, and obtained the Ecotable label, a long-term CSR commitment for the catering sector, whilst also increasing the share of local produce in its catering provisions.²⁵

2022 also saw the launch of three interconnected initiatives, the Green Ticket, Green Challenge and Green Fan Zone, which were introduced to race attendees under the banner of The Green Experience to encourage participation in activities such as low-carbon transport, eco-friendly food options, and charitable endeavours.²⁶

Circuit de la Sarthe also organised a collection of emergency supplies to be sent to Ukraine and auctioned signed Ukrainian flags in support of the Ukrainian people in a further demonstration of CSR commitment and solidarity.²⁷



INDIANAPOLIS MOTOR SPEEDWAY – UNITED STATES

Absolute SCI™



Joining Circuit de la Sarthe in fifth position is the Indianapolis Motor Speedway, which has continued its consistent year-on-year ascent through the ranks thanks to its **holistic approach to sustainability**.

Efforts are underway in many areas, including the provision of all power via 100% renewable energy credits, the provision of recycling bins in 80% of public spaces, and the implementation of an initiative that allows fans to pay extra to offset their travel footprint.²⁸

Declaring that 2022 would be “the most sustainable Indy 500 in our 100-plus year history”, **the circuit committed to purchasing offset credits equal to its operational footprint** for the month of May via the same system, turning marginal farmland back into forests in more than 1 million acres across seven states in the Mississippi Alluvial Valley, and announced the use of a race tire partially composed of a new sustainable natural rubber.²⁹

Beyond direct operations, the official Indianapolis Motor Speedway retail partner’s fully sustainable shop, hosted inside an electric truck, will sell shirts that are estimated to save 6 20oz bottles from landfill, 1.05kw hrs of electricity, and 1.94 gallons of water each.³⁰

Source:

25. www.24h-lemans.com/en/csr/responsible-economy
26. www.24h-lemans.com/en/news/a-new-green-ticket-for-the-24-hours-of-le-mans-56292
27. www.24h-lemans.com/en/csr/for-all
28. www.indianapolismotorspeedway.com/sustainability
29. www.indianapolismotorspeedway.com/news-multimedia/news/2022/04/22/penske-entertainment-sustainability-2022
30. www.indianapolismotorspeedway.com/sustainability



YAS MARINA – ABU DHABI

Absolute SCI™



Yas Marina Circuit in Abu Dhabi has continued to make steady progress across a number of strands in the last year, **recycling approximately 4000 litres of cooking fuel into biofuel across 2022** and establishing a solar farm through which to power its fan zones.

Elsewhere, its creative recycling partnership with Etihad Airways involved a reverse vending machine allowing guests to exchange plastic bottles for a seed voucher to plant a tree in the Etihad Mangrove Forest in Abu Dhabi. Each mangrove planted can absorb up to 250 kg of carbon dioxide, further supporting the circuit's carbon reduction and biodiversity ambitions. Going even further, the **recycled plastic bottles were spun into thread to be used in the manufacture of sustainable clothing**, including the Yas Marina Circuit uniform.³¹

Source:
³¹ www.yasmarinacircuit.com/en/sustainability

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HONOURABLE MENTIONS FOR IMPROVED PERFORMANCE

A consistent approach to sustainability is the ultimate ambition once an industry is already deploying high levels of sustainability best practice, but whilst the motorsports sector is still gearing up its efforts, it is important to **shine a light on those circuits that have gone above and beyond to radically improve their year-on-year sustainability performance**. Below is a selection of circuits making such leaps and bounds:



CIRCUIT DE SPA-FRANCORCHAMPS – BELGIUM

Absolute SCI™



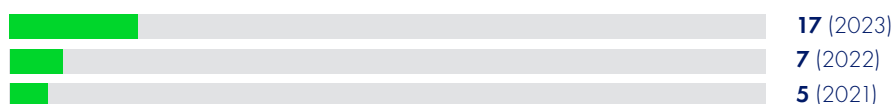
Having set off on its sustainability journey in earnest over the course of 2022, Circuit de Spa-Francorchamps improved its score more than 10-fold with measures such as the **publication of its sustainable development policy**, detailing commitments such as the adoption of ISO 20121 certification, the use of ecocups and recycling bags during Formula 1 races, and the encouragement of fans to use low-carbon modes of transport to reach the circuit.³²

Further to this, the circuit has published its environmental policy, **holding itself accountable to reduce negative environmental impact, engage positively with local communities, and establish objectives relating to energy consumption and CO2 emissions.**³³ These commitments signal the seriousness with which Circuit de Spa-Francorchamps is approaching its journey towards best practice in sustainability.



SYDNEY MOTORSPORT PARK - AUSTRALIA

Absolute SCI™



More impressive progress can be seen at Sydney Motorsport Park, which **more than doubled its absolute SCI™ score in 2022** predominantly thanks to initiatives surrounding waste management, environmental services, and community outreach.

A partnership with Closed Loop saw the circuit switch from a baseline waste production of 20% recycling / 80% landfill to a laudable 66% recycling / 34% landfill in just four months; further to this, an event in April 2022 achieved 77.9% of waste diverted from landfill.³⁴ To assist in this endeavour, Sydney Motorsport Park has invested in site disposal bins separated into Soft Plastics, Green Waste, General Recycling, and Landfill, and have introduced Bio Cups with dedicated cup and lid recycling stations. The venue's catering partner also uses compostable PLA-lined coffee cups, biodegradable cling wrap, and other green products.³⁵

Additional measures include **an on-site tyre compound for recycling and upcycling**³⁶ and the regular donation of money and track time to charitable partners, allowing access to facilities and expert tuition from the circuit's experience partners and knowledge base.³⁷

Source:

³² www.spagrandprix.com/en/sustainable-development-policy

³³ www.spa-francorchamps.be/en/environmental-policy

³⁴ sustainability.smsp.com.au/closed-loop-partnership/

³⁵ sustainability.smsp.com.au/venueslive-catering-partner/

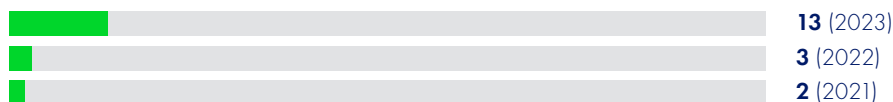
³⁶ www.youtube.com/watch?v=4NFArXD2uac&t=62s

³⁷ sustainability.smsp.com.au/donations/



NÜRBURGRING – GERMANY

Absolute SCI™



The world-famous Nürburgring circuit made significant progress on sustainability over the course of 2022, with the **installation of a new solar PV system that spans 3,500m², reducing the venue's CO₂ emissions by over 238,000kg per year.**³⁸ Not content to stop there, the circuit now obtains 100% green electricity from its power suppliers and prioritises responsible waste management, careful use of water resources, and efficient recycling with certified waste disposal, the use of proprietary waste water treatment technology, and the use of reusable crockery and cutlery on-site.³⁹

Positive impact is further promoted through the implementation of cycling and running events for the community,⁴⁰ whilst barrier-free accessible places and parking are made available for wheelchair users and their companions, along with a 50% discount to many events.⁴¹



AUTODROMO NAZIONALE DI MONZA – ITALY

Absolute SCI™



Autodromo Nazionale Di Monza **almost doubled its absolute score in the 2023 ranking** through initiatives such as the planting of three thousand trees in Monza Park⁴¹ and a number of impressive social outreach programs, including hosting a march of the Italian League for the Fight against Cancer⁴³ and opening the track for amateur cyclists during spring and summer.⁴⁴

The circuit also established its "One lap = one tree" initiative, which involves planting trees in developing countries to revitalize impoverished cultivation land. In some locations, this includes transforming mono-crops into forest gardens that allow farmers to grow produce every month of the year to provide for their local communities.⁴⁵

Source:

38. www.nuerburgring.de/news/photovoltaikanlage-in-partnerschaft-mit-wi-solar-umgesetzt

39. www.nuerburgring.de/info/company/about-us/acting-responsibly

40. www.facebook.com/events/d41d8cd9/cycling-running-meet/547077356874956/

41. www.nuerburgring.de/info/service/accessibility?locale=en

42. www.monzanel.it/en/sustainability/

43. www.monzanel.it/en/the-2022-calendar-of-the-autodromo-nazionale-monza/

44. www.monzanel.it/en/the-2022-calendar-of-the-autodromo-nazionale-monza/

45. www.monzanel.it/en/sustainability/

9

CONCLUSION: SETTING THE PACE

This 3rd edition of the Sustainable Circuits Index™ shows that the motorsports industry is continuing to steadily improve its year-on-year performance.

Progress across environmental criteria has been made across the board, but **particularly in the promotion of waste management and circular economy measures**, with 34 circuits developing their offering in this space, up from 25 in the last Index.

More attention is being paid to industry-recognised accreditations, with a total of 21 being issued and disclosed this year, up from 13 in 2022 and 9 in 2021. Circuits are also ramping up their focus on sustainability-related awards, with 15 circuits receiving accolades, more than double last year's figure of 7.

As the clamour for fan engagement increases and the world returns to a 'new normal' following the COVID-19 pandemic, a significant increase can also be seen in the number of community events noted in this year's Index, with 42 circuits participating in them, almost doubling last year's figure of 28.

The motorsport industry increasingly called upon to contribute more to the many environmental, social, and economic challenges facing the world today; **by 2025, all Formula 1 circuits will have to qualify as a sustainable spectacle and deliver a positive race print**,⁴⁶ and other championships are sure to follow close behind. Elsewhere, European circuits have made advancements in response to legislative pushes at the domestic⁴⁷ and international level.⁴⁸

Whilst it is encouraging to see so much solid progress being made, seven circuits are still yet to score a single point in the SCI™, illustrating the challenge that lays ahead as the sector makes its collective transition to a decarbonised and sustainable future.

As ever, the urgency with which evolution must take place has been grasped by many but remains elusive to some. **Motorsports occupies a unique position in the worlds of technology, innovation, discipline, and creativity; by harnessing all of these faculties and learning from one another, truly inspirational progress is possible.** Without that spirit of collaboration and curiosity, the road ahead will be much more challenging to travel.

Source:

⁴⁶ corp.formula1.com/wp-content/uploads/2019/11/Environmental-sustainability-Corp-website-vFINAL.pdf

⁴⁷ www.gov.uk/government/publications/environmental-improvement-plan/environmental-improvement-plan-2023

⁴⁸ www.europarl.europa.eu/news/en/press-room/20220620IPR33413/new-social-and-environmental-reporting-rules-for-large-companies

ABOUT THE AUTHOR



Enovation Consulting exists to accelerate sustainability progress in sport.

A leading FIA environmentally-accredited and B Corp-certified specialist sports and sustainability agency, we work with global sports rights holders and stakeholders to provide a strategic, long-term approach to building value for companies, people, and planet.

We deliver creative, innovative, data-based solutions grounded in robust research, empowering organisations with the knowledge they need to integrate ESG into their business strategies whilst managing risks and enhancing resilience.

The organisation runs two not-for-profit initiatives, the Sustainable Motorsport Index™, of which the SCITM is a part, and the Sustainability in Sport Future Leaders Programme, an initiative offering a dedicated and supportive pathway to a career in sustainability within the sports industry.

For further information: e-novationconsulting.com

ABOUT THE SUSTAINABLE MOTORSPORT INDEX™

'If you cannot measure it, you cannot improve it.'

This motto underpins the approach of the Sustainable Motorsport Index™ (SMI™), which assesses and measures the sustainability performance of motorsports stakeholders against the UN SDGs and the global ESG framework.


An industry first, the SMI™ is the only global performance system of its kind, benchmarking and comparing circuits and championships on the basis of publicly disclosed data. The findings within each index identify best practice, giving other key stakeholders the possibility to explore measures they could in turn adopt and implement.

The SMI™ uses carefully calibrated indicators and third-party validation by industry experts to provide a comprehensive and balanced comparison across five pillars: environment, social, governance, sustainability approach and engagement, accreditations, and awards.

Launching 7th September, for the international day of Clean Air and Blue Sky, the SMI™ is evolving to include an ESG online platform to respond to the demands of motorsport businesses as they embark on the road to net zero. The platform will provide news, workshops, toolkits, and a network of vetted suppliers.

For more information and to register your interest contact info@sustainablemotorsportindex.com

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ACKNOWLEDGEMENTS

The authors of this paper would like to thank Professor Paolo Taticchi for his guidance across the Sustainable Motorsports Index™ family of reports, of which the Sustainable Circuits Index™ is a cornerstone.

Paolo Taticchi is Professor in Strategy and Sustainability & School Deputy Director (MBA, Global Engagement, Executive Education) at UCL School of Management.

Highly active in executive education, Paolo has trained thousands of managers and executives of Fortune Global 500 companies; and is a sought-after speaker regularly invited to give keynote talks at world-class academic, governmental and industry events. Paolo's research on corporate sustainability and performance measurement is internationally recognised. Paolo's latest books include "Corporate Sustainability in Practice", which was published in January 2021, and "Sustainable Transformation Strategy", published in June 2023.

Outside of the academy, Paolo has significant consultancy experience in the fields of strategy, education, and sustainability. He has worked in this capacity for firms of various sizes, and in a range of different industries. Today, he advises (or serves in the advisory board) influential organisations and is one of the scientific advisors of the Ministry of Environment and Energy Security in Italy.

He has received numerous awards for the impact of his work. His projects, quotes and opinions have been featured over 350 times in international media outlets. In the last three years, Paolo was indicated by Italian's leading business daily Sole 24 Ore as the most influential Italian under the age of 40.

www.paolotaticchi.com

APPENDICES

Appendix 1:

List of all surveyed circuits in alphabetical order and country

CIRCUIT NAME	COUNTRY
Atlanta Motor Speedway	U.S.A.
Auto Club Speedway	U.S.A.
Autodrom Most	Czech Republic
Autódromo El Villicum San Juan	Argentina
Autodromo Hermanos Rodriguez	Mexico
Autódromo Internacional Algarve	Portugal
Autodromo Internazionale Enzo e Dino Ferrari	Italy
Autodromo Jose Carlos Pace (Interlagos)	Brazil
Autodromo Nazionale di Monza	Italy
Autódromo Termas de Río Hondo	Argentina
Autodromo Vallelunga Piero Taruffi	Italy
Automotodrom Brno	Czech Republic
Bahrain International Circuit	Bahrain
CARCO.com.au Raceway	Australia
Barber Motorsports Park	U.S.A.
Bend Motorsports Park	Australia
Brands Hatch Circuit	United Kingdom
Bristol Motor Speedway	U.S.A.
Chang International Circuit	Thailand
Charlotte Motor Speedway	U.S.A.
Chicagoland Speedway	U.S.A.
Circuit de Barcelona – Catalunya	Spain
Circuit de La Sarthe (Le Mans)	France
Circuit de Nevers Magny-Cours	France
Circuit de Spa-Francorchamps	Belgium
Circuit Gilles-Villeneuve	Canada
Circuit Of The Americas	U.S.A.
Circuit Ricardo Tormo	Spain
Circuit Zandvoort	Netherlands
Circuit Zolder	Belgium
Circuito de Jerez Ángel Nieto	Spain
Darlington Raceway	U.S.A.

CIRCUIT NAME	COUNTRY
Daytona International Speedway	U.S.A.
Donington Park	United Kingdom
Dover Motor Speedway	U.S.A.
Fuji International Speedway	Japan
Hidden Valley Raceway	Australia
Hockenheimring	Germany
Homestead-Miami Speedway	U.S.A.
Hungaroring	Hungary
Igora Drive	Russia
Indianapolis Motor Speedway	U.S.A.
Intercity Istanbul Park	Turkey
Kansas Speedway	U.S.A.
Kentucky Speedway	U.S.A.
KymiRing	Finland
Las Vegas Motor Speedway	U.S.A.
Lausitzring	Germany
Losail International Circuit	Qatar
Martinsville Speedway	U.S.A.
Michigan International Speedway	U.S.A.
Mid Ohio	U.S.A.
Miller Motorsports Park (Utah Motorsports Campus)	U.S.A.
Misano World Circuit Marco Simoncelli	Italy
Morgan Park Raceway	Australia
MotorLand Aragón	Spain
Motorsport Arena Oschersleben	Germany
Mount Panorama Bathurst	Australia
Mugello Circuit	Italy
New Hampshire Motor Speedway	U.S.A.
Ningbo International Speedway	China
Nürburgring	Germany
Paul Ricard	France
Phakisa Freeway	South Africa
Phillip Island Circuit	Australia
Phoenix International Raceway (ISM Raceway)	U.S.A.































CIRCUIT NAME	COUNTRY
Pocono Raceway	U.S.A.
Portland International Raceway	U.S.A.
Queensland Raceway	Australia
Raceway Venray (Circuit de Peel)	Netherlands
Red Bull Ring (Österreichring)	Austria
Richmond International Raceway	U.S.A.
Road America	U.S.A.
Sachsenring	Germany
Sandown International Raceway	Australia
Sebring International Raceway	U.S.A.
Sepang International Circuit	Malaysia
Shanghai International Circuit	China
Silverstone	United Kingdom
Slovakiaring	Slovakia
Snetterton	United Kingdom
Sonoma Raceway	U.S.A.
Suzuka Circuit	Japan
Sydney Motorsport Park	Australia
Symmons Plains International Raceway	Australia
Talladega Superspeedway	U.S.A.
Texas Motor Speedway	U.S.A.
TT Circuit Assen	Netherlands
Twin Ring Motegi	Japan
Virginia International Raceway	U.S.A.
Wakefield Park Raceway	Australia
Watkins Glen	U.S.A.
WeatherTech Raceway Laguna Seca	U.S.A.
Winton Motor Raceway	Australia
World Wide Technology Raceway	U.S.A.
Yas Marina	U.A.E.

Appendix 2:

SCI Index (performance data normalized over the score of the leader)

CIRCUIT NAME	CATEGORY OF PERFORMANCE
Mugello Circuit	
Circuit de Barcelona – Catalunya	
Misano World Circuit Marco Simoncelli	
Paul Ricard	
Silverstone	
Circuit de La Sarthe (Le Mans)	
Indianapolis Motor Speedway	
Yas Marina	
Circuit Gilles-Villeneuve	
Michigan International Speedway	
Pocono Raceway	
Circuit Of The Americas	
Sonoma Raceway	
Darlington Raceway	
Road America	
Autodromo Internazionale Enzo e Dino Ferrari (Imola)	
Autodromo Nazionale di Monza	
Circuit Ricardo Tormo	
Portland International Raceway	
Circuit Zandvoort	
Las Vegas Motor Speedway	
Phoenix International Raceway (ISM Raceway)	
Sydney Motorsport Park	
Homestead-Miami Speedway	
WeatherTech Raceway Laguna Seca	
Autodromo Vallelunga Piero Taruffi	
MotorLand Aragón	
Nuerburgring	
Circuit de Spa-Francorchamps	
Circuit Zolder	
Daytona International Speedway	
Richmond International Raceway	

CHAMPIONSHIP NAME	CATEGORY OF PERFORMANCE
KymiRing	
Watkins Glen International	
Brands Hatch Circuit	
Dovor Motor Speedway	
Hungaroring	
Kansas Speedway	
Charlotte Motor Speedway	
Barber Motorsports Park	
Atlanta Motor Speedway	
Auto Club Speedway	
Circuit de Nevers Magny-Cours	
Donington Park	
New Hampshire Motor Speedway	
Sepang International Circuit	
Martinsville Speedway	
Snetterton	
Talladega Superspeedway	
Texas Motor Speedway	
Sochi Autodrom	
Bahrain International Circuit	
Bristol Motor Speedway	
Chicagoland Speedway	
DEKRA Lausitzring	
Losail International Circuit	
Red Bull Ring (Österreichring)	
Sebring Raceway	
Mobility Resort Motegi	
Miller Motorsports Park (Utah Motorsports Campus)	
Mount Panorama Bathurst	
TT Circuit Assen	
Virginia International Raceway	
World Wide Technology Raceway	
Autódromo Internacional Algarve	

CHAMPIONSHIP NAME	CATEGORY OF PERFORMANCE
Hidden Valley Raceway	
Hockenheimring	
Kentucky Speedway	
Motorsport Arena Oschersleben	
Phakisa Freeway	
Phillip Island Circuit	
Autodrom Most	
Bend Motorsports Park	
Chang International Circuit	
Mid Ohio Sports Car Course	
Raceway Venray (Circuit de Peel)	
Symmons Plains International Raceway	
Winton Motor Raceway	
Mandalika International Street Circuit	
Autodromo Hermanos Rodriguez	
Autodromo Jose Carlos Pace (Interlagos)	
Automotodrom Brno	
Fuji International Speedway	
Intercity Istanbul Park	
Morgan Park Raceway	
Queensland Raceway	
Sachsenring	
Sandown International Raceway	
Suzuka Circuit	
Wakefield Park Raceway	
Circuito San Juan Villicum	
Autódromo Termas de Río Hondo	
CARCO.com.au Raceway	
Circuito de Jerez Ángel Nieto	
Igora Drive	
Ningbo International Speedway	
Shanghai International Circuit	
Slovakiaring	

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